

1

DATE: 04/23/2001

TIME: 13:12:41

Output Set: N:\CRF3\04232001\I821883.raw

**ENTERED**

## RAW SEQUENCE LISTING

DATE: 04/23/2001

PATENT APPLICATION: US/09/821,883

TIME: 13:12:41

Input Set : A:\7636-0022.30-SEQLIST.txt

Output Set: N:\CRF3\04232001\I821883.raw

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61 Gly Glu Ser Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala
62 225                230                235                240
63 Gly Gly Cys Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His
64                245                250                255
65 Glu Gln Cys Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu
66                260                265                270
67 Ala Cys Leu His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro
68                275                280                285
69 Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro
70                290                295                300
71 Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr
72 305                310                315                320
73 Asn Tyr Leu Ser Thr Asp Val Gly Ser Gly Ala Gly Gly Met Val His
74                325                330                335
75 His Arg His Arg Ser Ser Ser Thr Arg Ser Gly Gly Gly Asp Leu Thr
76                340                345                350
77 Leu Gly Leu Glu Pro Ser Glu Glu Ala Pro Arg Ser Pro Leu Ala
78                355                360                365
79 Pro Ser Glu Gly Ala Gly Ser Asp Val Phe Asp Gly Asp Leu Gly Met
80                370                375                380
81 Gly Ala Ala Lys Gly Leu Gln Ser Leu Pro Thr His Asp Pro Ser Pro
82 385                390                395                400
83 Leu Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro Leu Pro Ser Glu Thr
84                405                410                415
85 Asp Gly Tyr Val Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr Val
86                420                425                430
87 Asn Gln Pro Asp Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro
88                435                440                445
89 Leu Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg Ala Lys Thr
90                450                455                460
91 Leu Ser Pro Gly Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly
92 465                470                475                480
93 Gly Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala Ala
94                485                490                495
95 Pro Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala Phe Asp Asn Leu
96                500                505                510
97 Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro Pro Ser Thr
98                515                520                525
99 Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr Leu Gly Leu Asp
100                530                535                540
101 Val Pro Ala Ala Ala His His His His His
102 545                550                555
104 <210> SEQ ID NO: 2
105 <211> LENGTH: 690
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: HER500-hGM-CSF construct
112 <400> SEQUENCE: 2

```

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```

113 Met Arg Ala Ala Pro Leu Leu Leu Ala Arg Ala Ala Ser Leu Ser Leu
114 1 5 10 15
115 Gly Phe Leu Phe Leu Leu Phe Phe Trp Leu Asp Arg Ser Val Leu Ala
116 20 25 30
117 Lys Glu Leu Ala Arg Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr
118 35 40 45
119 Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met
120 50 55 60
121 Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu
122 65 70 75 80
123 Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile
124 85 90 95
125 Gln Glu Val Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln
126 100 105 110
127 Val Pro Leu Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu
128 115 120 125
129 Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn
130 130 135 140
131 Thr Thr Pro Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln
132 145 150 155 160
133 Leu Arg Ser Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg
134 165 170 175
135 Asn Pro Gln Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe
136 180 185 190
137 His Lys Asn Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser
138 195 200 205
139 Arg Ala Cys His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp
140 210 215 220
141 Gly Glu Ser Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala
142 225 230 235 240
143 Gly Gly Cys Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His
144 245 250 255
145 Glu Gln Cys Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu
146 260 265 270
147 Ala Cys Leu His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro
148 275 280 285
149 Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro
150 290 295 300
151 Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr
152 305 310 315 320
153 Asn Tyr Leu Ser Thr Asp Val Gly Ser Gly Ala Gly Gly Met Val His
154 325 330 335
155 His Arg His Arg Ser Ser Ser Thr Arg Ser Gly Gly Gly Asp Leu Thr
156 340 345 350
157 Leu Gly Leu Glu Pro Ser Glu Glu Glu Ala Pro Arg Ser Pro Leu Ala
158 355 360 365
159 Pro Ser Glu Gly Ala Gly Ser Asp Val Phe Asp Gly Asp Leu Gly Met
160 370 375 380
161 Gly Ala Ala Lys Gly Leu Gln Ser Leu Pro Thr His Asp Pro Ser Pro

```

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```

162 385          390          395          400
163 Leu Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro Leu Pro Ser Glu Thr
164          405          410          415
165 Asp Gly Tyr Val Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr Val
166          420          425          430
167 Asn Gln Pro Asp Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro
168          435          440          445
169 Leu Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg Ala Lys Thr
170          450          455          460
171 Leu Ser Pro Gly Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly
172 465          470          475          480
173 Gly Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala Ala
174          485          490          495
175 Pro Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala Phe Asp Asn Leu
176          500          505          510
177 Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro Pro Ser Thr
178          515          520          525
179 Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr Leu Gly Leu Asp
180          530          535          540
181 Val Pro Ala Ala Ala Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro
182 545          550          555          560
183 Trp Glu His Val Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu
184          565          570          575
185 Ser Arg Asp Thr Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser
186          580          585          590
187 Glu Met Phe Asp Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu
188          595          600          605
189 Leu Tyr Lys Gln Gly Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro
190          610          615          620
191 Leu Thr Met Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro
192 625          630          635          640
193 Glu Thr Ser Cys Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu
194          645          650          655
195 Asn Leu Lys Asp Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro
196          660          665          670
197 Val Gln Glu Gly Ala Pro Pro Pro Pro Ala Ala Ala His His His His
198          675          680          685
199 His His
200          690
202 <210> SEQ ID NO: 3
203 <211> LENGTH: 564
204 <212> TYPE: PRT
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: HER500* construct
210 <400> SEQUENCE: 3
211 Met Arg Ala Ala Pro Leu Leu Leu Ala Arg Ala Ala Ser Leu Ser Leu
212 1 5 10 15
213 Gly Phe Leu Phe Leu Leu Phe Phe Trp Leu Asp Arg Ser Val Leu Ala

```

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Input Set : A:\7636-0022.30-SEQLIST.txt

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214		20		25		30										
215	Lys	Glu	Leu	Ala	Arg	Gly	Ala	Ala	Ser	Thr	Gln	Val	Cys	Thr	Gly	Thr
216		35		40		45										
217	Asp	Met	Lys	Leu	Arg	Leu	Pro	Ala	Ser	Pro	Glu	Thr	His	Leu	Asp	Met
218		50		55		60										
219	Leu	Arg	His	Leu	Tyr	Gln	Gly	Cys	Gln	Val	Val	Gln	Gly	Asn	Leu	Glu
220	65			70		75									80	
221	Leu	Thr	Tyr	Leu	Pro	Thr	Asn	Ala	Ser	Leu	Ser	Phe	Leu	Gln	Asp	Ile
222				85		90									95	
223	Gln	Glu	Val	Gln	Gly	Tyr	Val	Leu	Ile	Ala	His	Asn	Gln	Val	Arg	Gln
224				100		105									110	
225	Val	Pro	Leu	Gln	Arg	Leu	Arg	Ile	Val	Arg	Gly	Thr	Gln	Leu	Phe	Glu
226				115		120									125	
227	Asp	Asn	Tyr	Ala	Leu	Ala	Val	Leu	Asp	Asn	Gly	Asp	Pro	Leu	Asn	Asn
228				130		135									140	
229	Thr	Thr	Pro	Val	Thr	Gly	Ala	Ser	Pro	Gly	Gly	Leu	Arg	Glu	Leu	Gln
230	145					150						155			160	
231	Leu	Arg	Ser	Leu	Thr	Glu	Ile	Leu	Lys	Gly	Gly	Val	Leu	Ile	Gln	Arg
232						165						170			175	
233	Asn	Pro	Gln	Leu	Cys	Tyr	Gln	Asp	Thr	Ile	Leu	Trp	Lys	Asp	Ile	Phe
234				180						185					190	
235	His	Lys	Asn	Asn	Gln	Leu	Ala	Leu	Thr	Leu	Ile	Asp	Thr	Asn	Arg	Ser
236				195						200					205	
237	Arg	Ala	Cys	His	Pro	Cys	Ser	Pro	Met	Cys	Lys	Gly	Ser	Arg	Cys	Trp
238				210						215					220	
239	Gly	Glu	Ser	Ser	Glu	Asp	Cys	Gln	Ser	Leu	Thr	Arg	Thr	Val	Cys	Ala
240	225					230						235			240	
241	Gly	Gly	Cys	Ala	Arg	Cys	Lys	Gly	Pro	Leu	Pro	Thr	Asp	Cys	Cys	His
242						245						250			255	
243	Glu	Gln	Cys	Ala	Ala	Gly	Cys	Thr	Gly	Pro	Lys	His	Ser	Asp	Cys	Leu
244				260						265					270	
245	Ala	Cys	Leu	His	Phe	Asn	His	Ser	Gly	Ile	Cys	Glu	Leu	His	Cys	Pro
246				275						280					285	
247	Ala	Leu	Val	Thr	Tyr	Asn	Thr	Asp	Thr	Phe	Glu	Ser	Met	Pro	Asn	Pro
248				290						295					300	
249	Glu	Gly	Arg	Tyr	Thr	Phe	Gly	Ala	Ser	Cys	Val	Thr	Ala	Cys	Pro	Tyr
250	305					310						315			320	
251	Asn	Tyr	Leu	Ser	Thr	Asp	Val	Gly	Ser	Ala	Ser	Ile	Ile	Asn	Phe	Glu
252						325						330			335	
253	Lys	Leu	Gly	Ala	Gly	Gly	Met	Val	His	His	Arg	His	Arg	Ser	Ser	Ser
254				340						345					350	
255	Thr	Arg	Ser	Gly	Gly	Gly	Asp	Leu	Thr	Leu	Gly	Leu	Glu	Pro	Ser	Glu
256				355						360					365	
257	Glu	Glu	Ala	Pro	Arg	Ser	Pro	Leu	Ala	Pro	Ser	Glu	Gly	Ala	Gly	Ser
258				370						375					380	
259	Asp	Val	Phe	Asp	Gly	Asp	Leu	Gly	Met	Gly	Ala	Ala	Lys	Gly	Leu	Gln
260	385					390						395			400	
261	Ser	Leu	Pro	Thr	His	Asp	Pro	Ser	Pro	Leu	Gln	Arg	Tyr	Ser	Glu	Asp
262				405						410					415	

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/821,883

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TIME: 13:12:42

Input Set : A:\7636-0022.30-SEQLIST.txt

Output Set: N:\CRF3\04232001\I821883.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date